

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (currently amended) A switched capacitor filter having an anti-aliasing function, comprising:

integration circuits of multiple stages, each having an amplifier and a switched capacitor, and

wherein

the an integration circuit of at least a first stage of the integration circuits of multiple having has a resistor, and

the amplifier in at least one of the integration circuits including includes a bipolar transistor.

2. (currently amended) A switched capacitor filter having an anti-aliasing function, comprising:

integration circuits of multiple stages, each having an amplifier and a switched capacitor, and

wherein

the integration circuit of at least a first stage of the integration circuits of multiple having has a resistor, and

the bipolar transistor is provided in an input stage of the amplifier in at least one of the integration circuits having the resistor.

3. (currently amended) A switched capacitor filter having an anti-aliasing function, comprising:

integration circuits of multiple-stages, each having an amplifier and a switched capacitor, and

wherein

an integration circuit of at least a first stage of the integration circuits of multiple having has a resister,

the integration circuits each having has a distributed gain so as to maintain a filtering function in each of the multiple-stages of integration circuits, and

an input stage of an amplifier which shows a strong 1/f noise reduction effect ineluding includes a bipolar transistor.

4. (currently amended) The switched capacitor as set forth in Claim 2, wherein:

the amplifier whose input stage includes the bipolar transistor has an input impedance that is greater than a resistance of a the resistor which is connected to the input stage of the amplifier.

5. (currently amended) The switched capacitor as set forth in Claim 3, wherein:

the amplifier whose input stage include the bipolar transistor has an input impedance that is greater than a resistance of a the resistor which is connected to the input stage of the amplifier.

6. (original) The switched capacitor filter as set forth in Claim 1, wherein:

the switched capacitor filter is provided on a single substrate.

7. (original) The switched capacitor filter as set forth in

Claim 2, wherein:

the switched capacitor filter is provided on a single substrate.

8. (original) The switched capacitor filter as set forth in Claim 3, wherein:

the switched capacitor filter is provided on a single substrate.

9. (original) A digital wireless receiver, wherein:
the switched capacitor filter of Claim 1 is used for
(i) intermediate frequency band section of a digital wireless receiver which uses a low to intermediate frequency, or (ii) an analog baseband section of a digital wireless communication receiver which uses no intermediate frequency.

10. (original) A digital wireless receiver, wherein:
the switched capacitor filter of Claim 2 is used for
(i) intermediate frequency band section of a digital wireless receiver which uses a low to intermediate frequency, or (ii) an analog baseband section of a digital wireless communication receiver which uses no intermediate frequency.

11. (original) A digital wireless receiver, wherein:
the switched capacitor filter of Claim 3 is used for
(i) intermediate frequency band section of a digital wireless receiver which uses a low to intermediate

Appl. No.: 10/802,838
Docket No.: 1248-0704P

frequency, or (ii) an analog baseband section of a digital wireless communication receiver which uses no intermediate frequency.